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Docket Nos.: 50-528/529/530

Mr. E. E. Van Brunt, Jr.
Vice President - Nuclear Projects
Arizona Public Service Company
P. O. Box 21666
Phoenix, Arizona 85036

Dear Mr. Van Brunt:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - PALO VERDE NUCLEAR GENERATING STATION

In order to complete our review of Palo Verde, we find that we will need your response to the questions found in the enclosure. These outstanding issues have been previously discussed with Mr. Quinn of your staff.

Within 7 days of receipt of this letter, please provide us with a proposed schedule for responding to the enclosure.

If you have any questions on this matter, please contact us.

Sincerely,

Original signed by
Robert L. Tedesco

Robert L. Tedesco, Assistant Director
for Licensing
Division of Licensing

Enclosure:
As stated

cc: See next page.

Appl.3

OFFICE	DL:LB#3	DL:LB#3	DL:AD/L				
SURNAME	JDKerrigan:jb	FJMiraglia	RLTedesco				
DATE	7/3/81	7/3/81	7/3/81				

Mr. E. E. Van Brunt, Jr.
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Arizona Public Service Company
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PALO VERDE

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REQUESTS FOR ADDITIONAL GEOLOGIC INFORMATION
PALO VERDE NUCLEAR GENERATING STATION, UNITS 1, 2 AND 3
ARIZONA PUBLIC SERVICE COMPANY
DOCKET NOS. STN 50-528/529/530

231.1 Eberly and Stanley's (1978) paper addresses the structural geology in the site vicinity (within five to ten miles). Discuss the impact (and validity) of their interpretation of the subsurface with respect to:

a. The existence of mountain-basin bounding faults in the Arlington-Gillespie Dam area.

b. The validity of their interpretation of the site vicinity geologic structure as shown on their Figure 8, p. 933.

c. The significance of Eberly's and Stanley's interpretation with respect to site safety.

231.2 Describe your post-1978 Palo Verde 4 and 5 PSAR activities with respect to the geologic and seismological updating of the Palo Verde 1, 2 and 3 FSAR.

231.3 Figure 2 (page 6) of a November, 1979 Dept. of Energy report shows two inferred faults in the Hassayampa Plain northeast of the Palo Verde site. Discuss the validity of these faults and their site-safety significance. The DOE report is titled "Geothermal studies in Arizona with two area assessments (DOE/ID/12009-T4)".

231.4 Describe the basis used for categorizing the fault (see FSAR Fig. 2.5-6) in the Sand Tank Mountains area some 36 miles SE of the Palo Verde site as older than 500,000 years.

231.5 Detailed geophysical surveys (gravity and magnetic) recently-conducted by C. Cloran (Geophysics, Hydrology and Geothermal Potential of the Tonapah Basin, Maricopa County, Arizona, MS Thesis, Arizona State University, May, 1977) within five miles of the Palo Verde site indicate that the Tonapah Basin is bounded by normal faults. Discuss the impact of Cloran's interpretation of the subsurface with respect to:

a. Site safety

b. The capability (or non-capability) of the basin-bounding faults suggested by Cloran.

c. The validity of the structural interpretation of the Tonapah Desert area as shown on FSAR Figure 2.5-8 and other related FSAR figures.